

FIG. 1

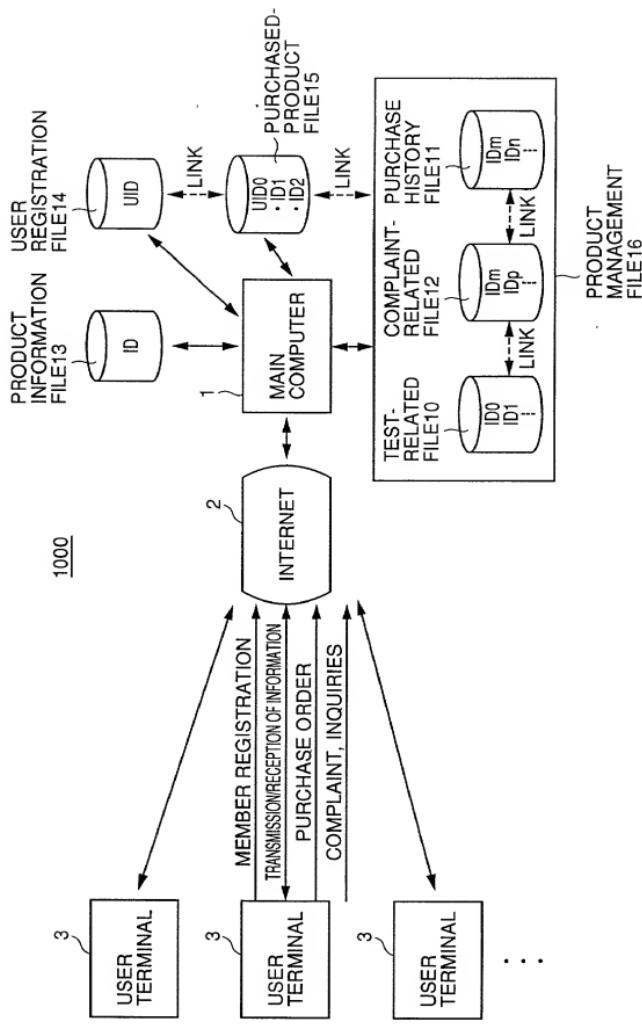


FIG.2

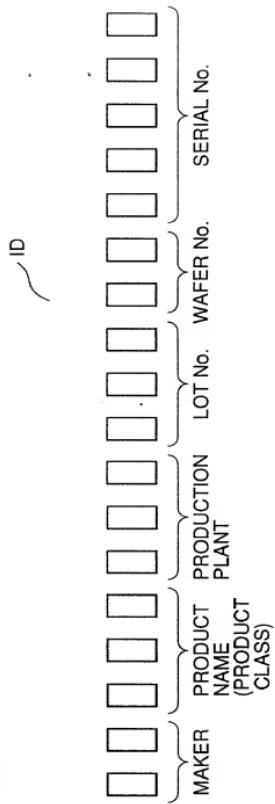


FIG.3

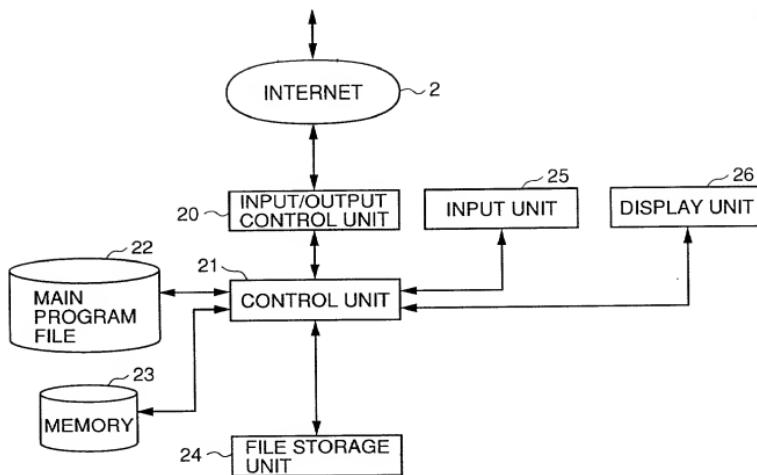


FIG.4

13

31 PRODUCT NAME	32 ID	33 COST	34 SPECIFICATION	35 RELIABILITY LEVEL	36 TEST SUMMARY
CHIP001	ID0	10,000	△	A	...
CHIP002	ID1	15,000	X	C	...
•	•	•	•	•	•
•	•	•	•	•	•
•	•	•	•	•	•

FIG.5

14

40	MEMBER NAME	AAABBC
41	USER IDENTIFICATION NUMBER(UID)	12345
42	ADDRESS	-----
43	COMMUNICATION	TELEPHONE No. E-MAIL ADDRESS
44	CREDIT CARD No.	1111-2222
45	PASSWORD	6789

FIG.6

15

UID	ID
12345	ID0
	ID1
	⋮
	IDm

FIG.7

10

ID	TEST CONTENTS	TEST RESULTS
ID0	GENERAL OPERATION TEST ONLY	-----
ID1	UP TO ACCELERATION TEST	-----

FIG.8

11

32 ID	60 ORDER DATE	61 WARRANTY PERIOD	62 DELIVERY DATE
ID3	00/1/1	02/1/1	00/1/2
ID5	00/1/5	02/1/5	00/1/5
ID10	00/2/1	02/2/1	00/2/3
⋮	⋮	⋮	⋮

FIG.9

12

32 ID	70 COMPLAINT INFORMATION
ID0	XXX
ID7	△△△△
⋮	⋮

FIG. 10

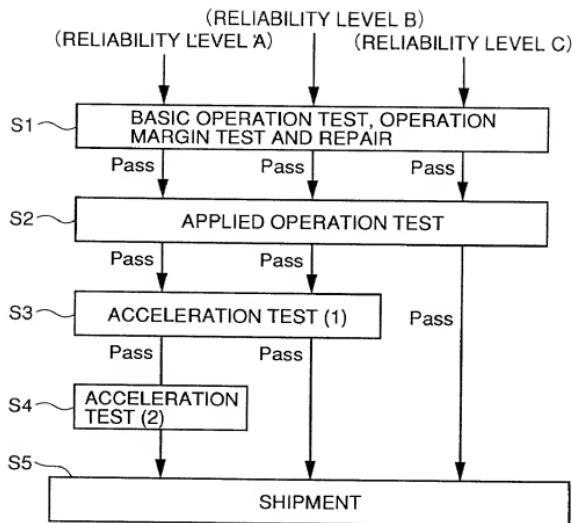


FIG. 11

RELIABILITY LEVEL	WARRANTY PERIOD	COST	MALFUNCTION OCCURRENCE RATE
A	T0	M0	E0
B	T1	M1	E1
C	T2	M2	E2

FIG. 12

3

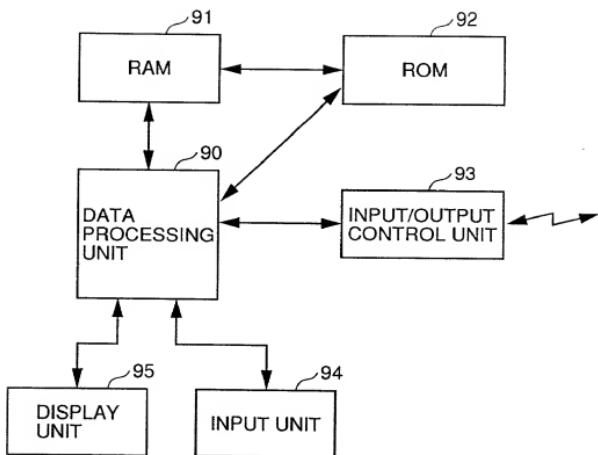


FIG.13

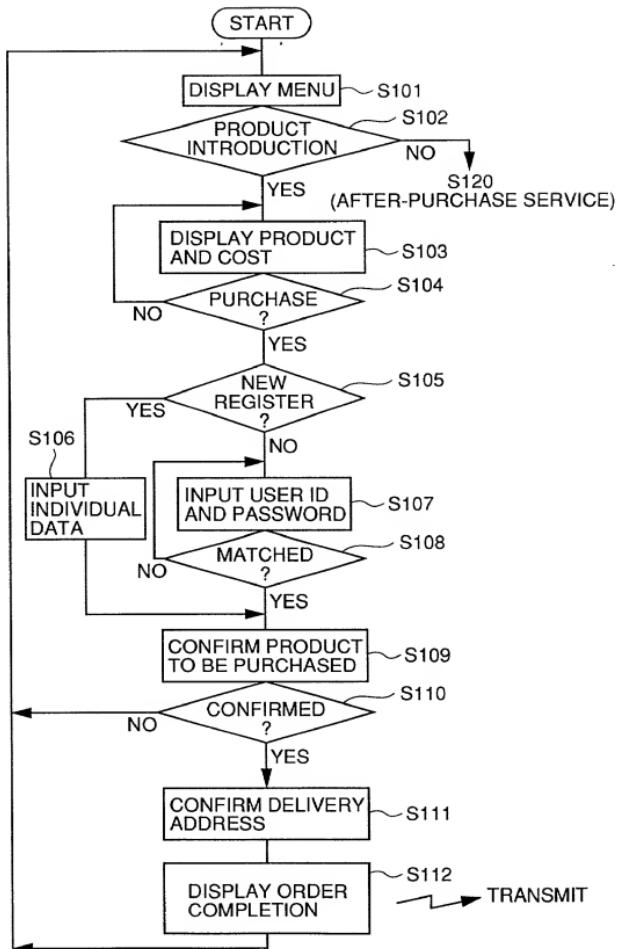


FIG.14

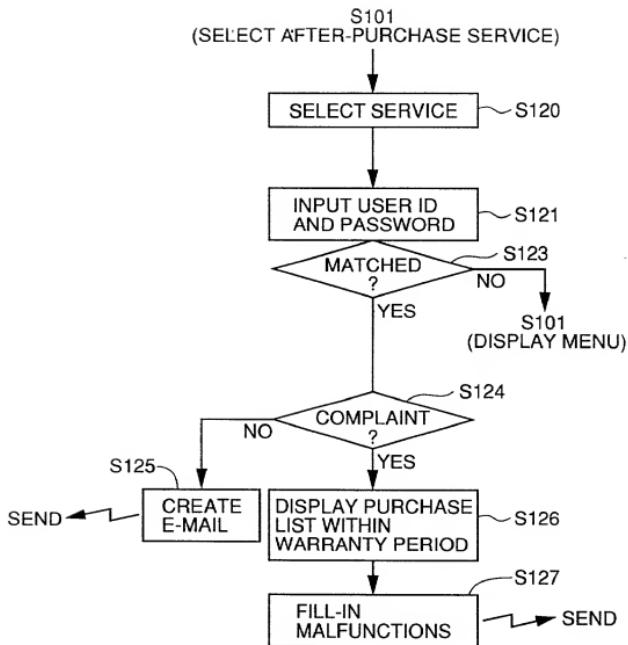


FIG. 15

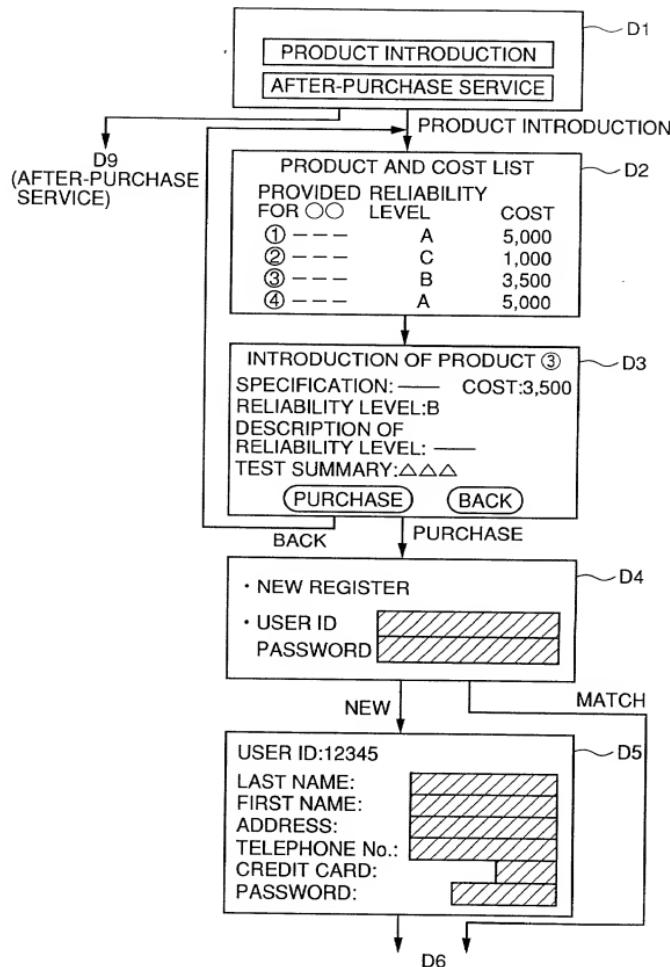


FIG. 16

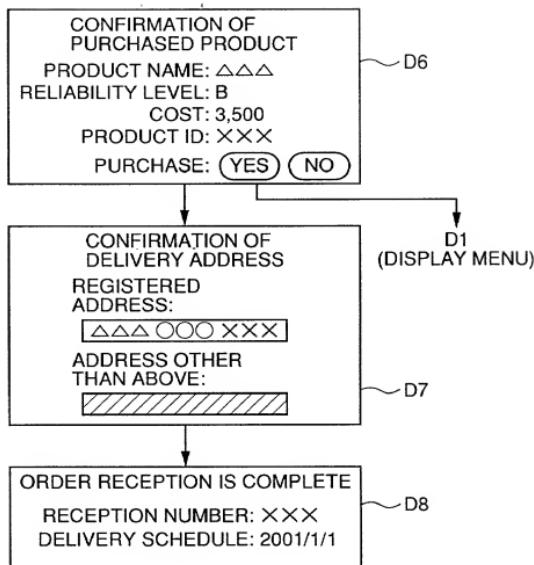


FIG.17

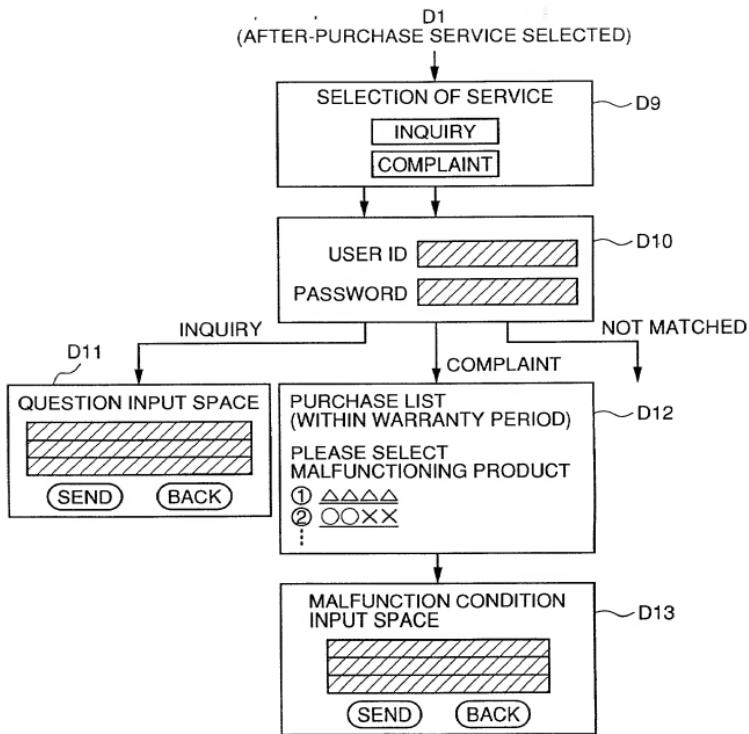


FIG. 18

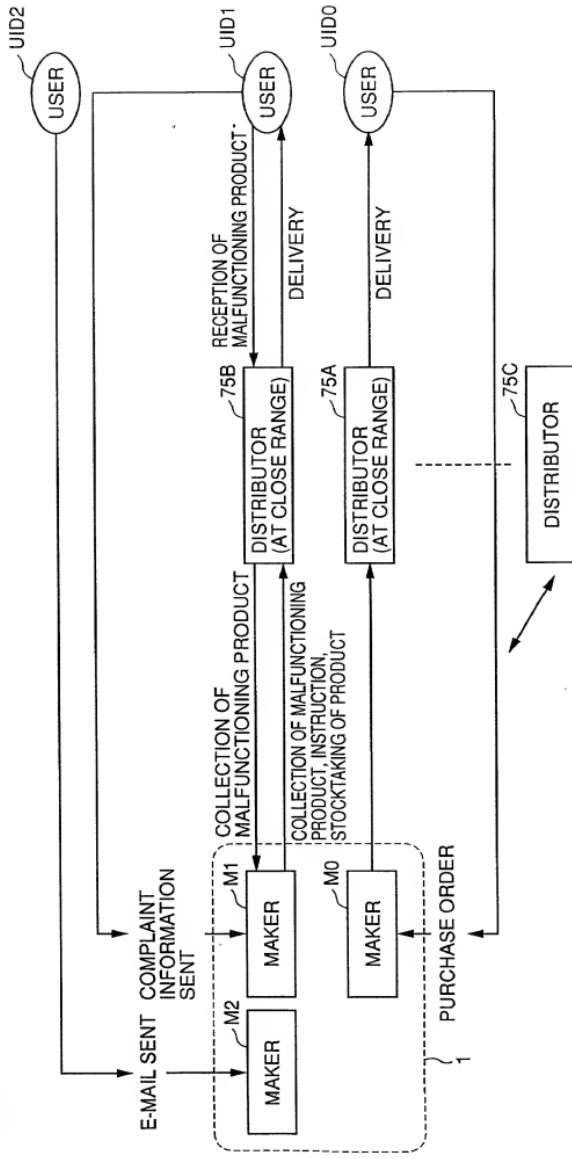


FIG. 19 PRIOR ART

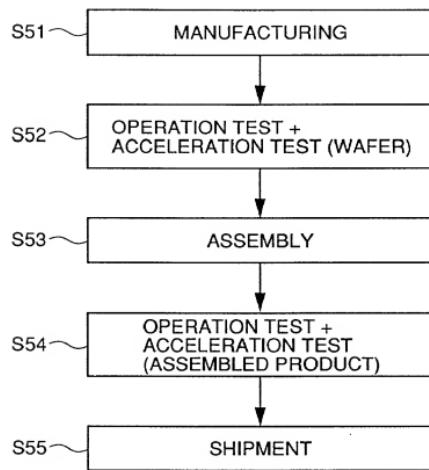


FIG.20A PRIOR ART

SCREENING

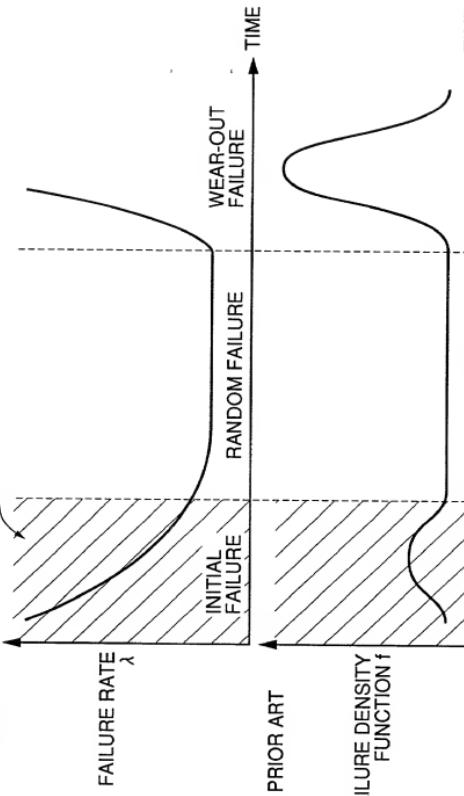


FIG.20B PRIOR ART

FAILURE DENSITY
FUNCTION f



λ : PERCENTAGE OF NUMBER OF FAILURES OCCURRED
DURING Δt TO NUMBER OF DEVICES

f : PERCENTAGE OF NUMBER OF FAILURES OCCURRED
DURING Δt TO NUMBER OF ALL PARAMETERS

FIG.21 PRIOR ART

QUALITY DIVISION	APPLICATION	QUALITY
FOR HIGH RELIABILITY	IMPORTANT DEVICES (TRANSPORTATION-RELATED DEVICES, MEDICAL DEVICES, AUTOMOBILES)	<10FIT
FOR GENERAL INDUSTRIES	INDUSTRIAL DEVICES (OA DEVICES, ELECTRIC MEASURING DEVICES)	~100FIT
FOR GENERAL CONSUMER	GENERAL DEVICES (AV DEVICES, HOME ELECTRIC APPLIANCES)	~200FIT

1FIT = 10^{-9} device /hour